

10/770,123

STN Structure Search
7. 21.05

=> d ibib abs hitstr 1-47

L4 ANSWER 1 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:259866 CAPLUS
DOCUMENT NUMBER: 142:309862
TITLE: Antibiotic cycloalkyltetrahydroquinoline derivatives
INVENTOR(S): Labaudiniere, Richard F.; Xiang, Yibin; Jalluri, Ravi
K.; Arvanites, Anthony C.
PATENT ASSIGNEE(S): Oscient Pharmaceuticals, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005025556	A2	20050324	WO 2004-US25937	20040811
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2003-494669P P 20030813

OTHER SOURCE(S): MARPAT 142:309862

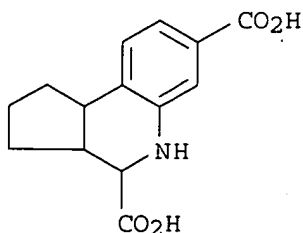
AB A method of treating a subject for a bacterial infection includes administering to a subject in need of treatment for a bacterial infection an effective amount of a cycloalkyltetrahydroquinoline compound, or a pharmaceutically acceptable salt, solvate, or hydrate thereof. The infection is caused by a bacterium that expresses phosphoenolpyruvate-UDP-N-acetyl-D-glucosamine 1-carboxyvinyltransferase (MurA, E.C. 2.1.5.7). Various cycloalkyltetrahydroquinoline compds. were prepared and tested in vitro for inhibition of MurA.

IT 848085-73-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cycloalkyltetrahydroquinoline antibiotics as MurA inhibitors for treatment of bacterial infections)

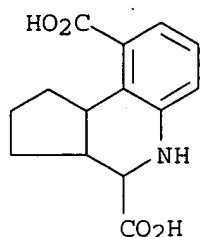
RN 848085-73-4 CAPLUS

CN 1H-Cyclopenta[c]quinoline-4,7-dicarboxylic acid, 2,3,3a,4,5,9b-hexahydro-(9CI) (CA INDEX NAME)



IT 848085-83-6 848085-86-9 848085-89-2

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L4 ANSWER 2 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:696357 CAPLUS

DOCUMENT NUMBER: 141:243351

TITLE: Preparation of tetrahydroquinolines as nuclear receptors modulators

INVENTOR(S): Koutnikova, Hana; Sierra, Michael; Braun-Egles, Anne; Marsol, Claire; Klotz, Evelyne; Lehmann, Juergen

PATENT ASSIGNEE(S): Carex S.A., Fr.

SOURCE: PCT Int. Appl., 166 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

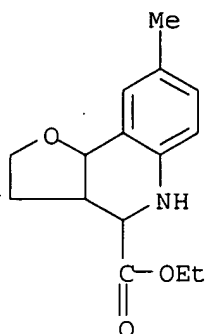
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004072046	A2	20040826	WO 2004-EP1280	20040211
WO 2004072046	A3	20041021		
W:	AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MZ, MZ, NA, NI			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: EP 2003-360025 A 20030212
EP 2003-360029 A 20030212
US 2003-456955P P 20030325
EP 2003-360083 A 20030704

OTHER SOURCE(S): MARPAT 141:243351

GI

10/770,123



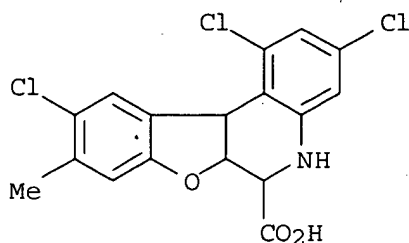
L4 ANSWER 3 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:679936 CAPLUS
DOCUMENT NUMBER: 141:207193
TITLE: Preparation of tetrahydroquinolinobenzofurancarboxylates as N-methyl-D-aspartate (NMDA) antagonists.
INVENTOR(S): Przewosny, Michael; Englberger, Werner; Schiene, Klaus
PATENT ASSIGNEE(S): Gruenenthal GmbH, Germany
SOURCE: Ger. Offen., 40 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10304950	A1	20040819	DE 2003-10304950	20030206
WO 2004069840	A2	20040819	WO 2004-EP1009	20040204
WO 2004069840	A3	20041202		

W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI, NI, NO

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DE 2003-10304950 A 20030206
OTHER SOURCE(S): MARPAT 141:207193
GI



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REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:245259 CAPLUS

DOCUMENT NUMBER: 139:44400

TITLE: Mersinine A from *Kopsia fruticosa*

AUTHOR(S): Subramaniam, G.; Kam, Toh Seok; Ng, Seik Weng

CORPORATE SOURCE: Department of Chemistry, University of Malaya, Kuala Lumpur, 50603, Malay.

SOURCE: Acta Crystallographica, Section E: Structure Reports Online (2003), E59(4), o555-o557

CODEN: ACSEBH; ISSN: 1600-5368

PUBLISHER: International Union of Crystallography

DOCUMENT TYPE: Journal; (online computer file)

LANGUAGE: English

AB The pentacyclic quinoline alkaloid mersinine A, C₂₅H₂₈N₂O₉, was isolated from the leaves of *Kopsia fruticosa* (Ker.) A d.c. Crystallog. data are given. The mol. has a hydroxyl group that forms a H bond with the carbonyl O atom of an adjacent mol., which gives rise to infinite chains running along the c axis of the crystal.

IT 367943-76-8, Mersinine A

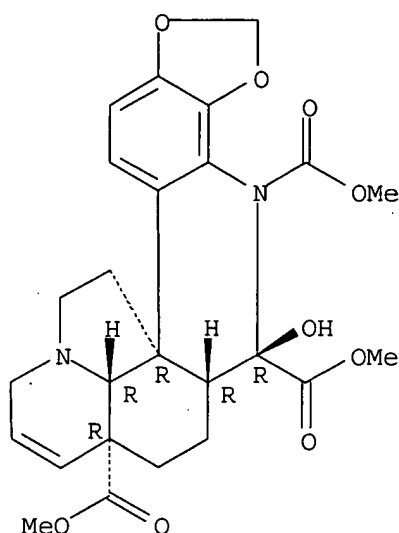
RL: PRP (Properties)

(crystal structure of)

RN 367943-76-8 CAPLUS

CN 4H,10H-1,3-Benzodioxolo[4,5-k]pyrrolo[3,2,1-mn][1,8]phenanthroline-4,5,7a(11aH)-tricarboxylic acid, 5,5a,6,7,12,13-hexahydro-5-hydroxy-, trimethyl ester, .(5R,5aR,7aR,11aR,13aR) - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:133277 CAPLUS

DOCUMENT NUMBER: 138:170088

TITLE: Preparation of 5,6,6a,11b-tetrahydro-7-oxa-5-aza-benzo[c]fluorene-6-carboxylic acids as NMDA antagonists for the treatment of pain

INVENTOR(S): Gerlach, Matthias; Przewosny, Michael; Englberger, Werner Guenter; Reissmueller, Elke; Bloms-Funke, Petra; Maul, Corinna; Jagusch, Utz-Peter

PATENT ASSIGNEE(S): Gruenenthal GmbH, Germany

SOURCE: PCT Int. Appl., 91 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

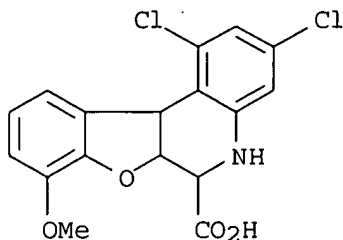
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003014124	A1	20030220	WO 2002-EP8886	20020805
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10137487	A1	20030327	DE 2001-10137487	20010803
CA 2456124	AA	20030220	CA 2002-2456124	20020805
EP 1412361	A1	20040428	EP 2002-764838	20020805
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
BR 2002011734	A	20040921	BR 2002-11734	20020805
JP 2005500374	T2	20050106	JP 2003-519073	20020805
NZ 531372	A	20050324	NZ 2002-531372	20020805

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RN 546114-45-8 CAPLUS

CN Benzofuro[2,3-c]quinoline-6-carboxylic acid, 1,3-dichloro-5,6,6a,11b-tetrahydro-8-methoxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Inventor
L4 ANSWER 6 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:133043 CAPLUS

DOCUMENT NUMBER: 138:170085

TITLE: Preparation of 1,2,3,4-tetrahydroisoquinoline-2-carboxylic acids as NMDA antagonist for the treatment of pain

INVENTOR(S): Maul, Corinna; Przewosny, Michael; Englberger, Werner Guenter

PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany

SOURCE: PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003013530	A2	20030220	WO 2002-EP8729	20020805
WO 2003013530	A3	20030925		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10137488	A1	20030220	DE 2001-10137488	20010803
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CA 2456103	AA	20030220	CA 2002-2456103	20020805
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EP 1411947	A2	20040428	EP 2002-772122	20020805
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

BR 2002011733	A	20040921	BR 2002-11733	20020805
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JP 2005501839	T2	20050120	JP 2003-518539	20020805
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US 2004224969	A1	20041111	US 2004-770123	20040203
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ZA 2004001724	A	20050201	ZA 2004-1724	20040302
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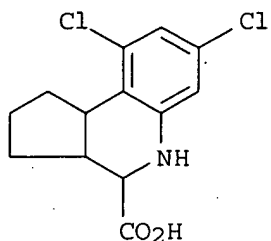
PRIORITY APPLN. INFO.:

DE 2001-10137488	A	20010803
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WO 2002-EP8729	W	20020805
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OTHER SOURCE(S): MARPAT 138:170085

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L4 ANSWER 7 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:114116 CAPLUS

DOCUMENT NUMBER: 138:153556

TITLE: Method for preparing heteroarylcarboxylic acids via treatment of the corresponding hydroxymethyl compounds with oxygen in the presence of a transition metal catalyst.

INVENTOR(S): Burdeniuc, Juan Jesus

PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA

SOURCE: Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1283202	A1	20030212	EP 2002-17635	20020806
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 6559308	B1	20030506	US 2001-925239	20010809
PRIORITY APPLN. INFO.:			US 2001-925239	A 20010809

OTHER SOURCE(S): CASREACT 138:153556

AB Quinoxaline-5- and 6-carboxylic acids were prepared by treatment of the corresponding 5- and 6-hydroxymethylquinoxalines with oxygen in the presence of transition metal catalysts. Thus, crude 6-hydroxymethylquinoxaline (preparation from 6-methylquinoxaline given) in aqueous

NaOH containing Pt/C was sparged with air under heating at 85-90° for 12 h to give 92% 6-carboxyquinoxaline.

IT 19711-92-3P, 6-Phenanthridinecarboxylic acid

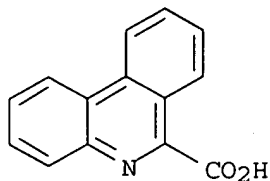
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of heteroarylcarboxylic acids via treatment of hydroxymethyl compds. with oxygen in the presence of a transition metal catalyst)

RN 19711-92-3 CAPLUS

CN 6-Phenanthridinecarboxylic acid (6CI, 8CI, 9CI) (CA INDEX NAME)

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REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:55030 CAPLUS

DOCUMENT NUMBER: 138:106718

TITLE: preparation of quinoxalinecarboxylic acids and related compounds via oxidation of halomethyl derivs. using oxygen and a transition metal catalyst.

INVENTOR(S): Burdeniuc, Juan Jesus

PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

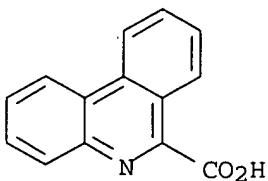
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1277739	A1	20030122	EP 2002-15662	20020717
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 6562972	B1	20030513	US 2001-908997	20010719
JP 2003073362	A2	20030312	JP 2002-209133	20020718
PRIORITY APPLN. INFO.:			US 2001-908997	A 20010719
AB Quinoxaline-5- and 6-carboxylic acids were prepared by contacting an aqueous alkaline suspension of a 5- or 6-halomethylquinoxaline with O in the presence of a transition metal catalyst. Thus, 6-chloromethylquinoxaline (preparation given) in aqueous NaOH containing Pd/C was refluxed 48 h under air sparging to give ~ 80% 6-quinoxalinecarboxylic acid.				
IT 19711-92-3P, 6-Phenanthridinecarboxylic acid				
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)				
(preparation of quinoxalinecarboxylic acids and related compds. via oxidation of halomethyl derivs. using oxygen and a transition metal catalyst)				
RN 19711-92-3 CAPLUS				
CN 6-Phenanthridinecarboxylic acid (6CI, 8CI, 9CI) (CA INDEX NAME)				



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:767243 CAPLUS

DOCUMENT NUMBER: 138:170061

TITLE: Palladium catalyzed double substitution reactions of iodophenol and iodoaniline derivatives with homo-conjugated compounds to form cyclic ether and cyclic amines through homo-conjugated interaction

AUTHOR(S): Saito, Katsuhiro; Ono, Katsuhiko; Sano, Makiko; Kiso, Shingo; Takeda, Toshihumi

CORPORATE SOURCE: Department of Applied Chemistry, Nagoya Institute of Technology, Nagoya, 466-8555, Japan

SOURCE: Heterocycles (2002), 57(10), 1781-1786

CODEN: HTCYAM; ISSN: 0385-5414

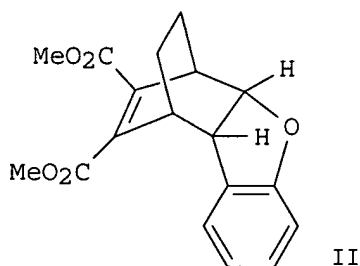
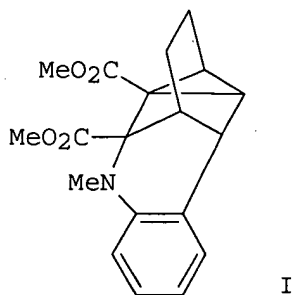
PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:170061

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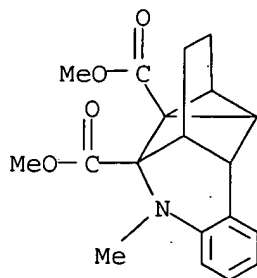
AB Palladium(II) acetate catalyzed double substitution reaction of a bicyclo[2.2.2]octadiene derivative with o-substituted iodobenzenes afforded six membered cyclic compds., e.g., I, via a homo-conjugation type interaction accompanied by a five-membered cyclic compound II. On the other hand, a similar type of reaction but using a bicyclo[2.2.1]heptadiene derivative formed only the corresponding five-membered cyclic compound

IT 497222-49-8P 497222-50-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(palladium catalyzed double substitution reactions of iodophenol and iodoaniline derivs. with bicyclo[2.2.2]octadiene and bicyclo[2.2.1]heptadiene derivs.)

RN 497222-49-8 CAPLUS

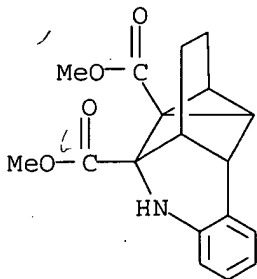
CN 3,4,9-Methenoacridine-4,4a-dicarboxylic acid, 1,2,3,9,9a,10-hexahydro-10-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



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RN 497222-50-1 CAPLUS

CN 3,4,9-Methenoacridine-4,4a-dicarboxylic acid, 1,2,3,9,9a,10-hexahydro-, dimethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:680832 CAPLUS

DOCUMENT NUMBER: 135:242014

TITLE: Polymer-bound α -imino esters and preparation of α -amino esters using them

INVENTOR(S): Kobayashi, Osamu

PATENT ASSIGNEE(S): Foundation for Scientific Technology Promotion, Japan; Japan Science and Technology Agency

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001253858	A2	20010918	JP 2000-69499	20000313
JP 3573679	B2	20041006		
WO 2001068588	A1	20010920	WO 2001-JP1971	20010313
W: US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1270549	A1	20030102	EP 2001-912321	20010313
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
US 2003187147	A1	20031002	US 2002-221372	20021107
US 6838527	B2	20050104		

PRIORITY APPLN. INFO.: JP 2000-69499 A 20000313
WO 2001-JP1971 W 20010313

OTHER SOURCE(S): CASREACT 135:242014; MARPAT 135:242014

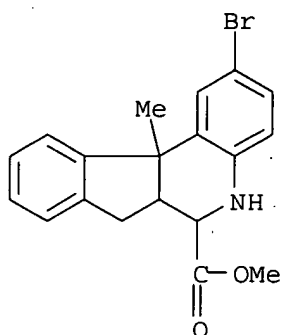
AB α -Amino esters are prepared from 4-XC₆H₄R₁O₂CCH:NR₂ [I; R₁ = C₂≥1 alkylene; R₂ = H, halo, (un)substituted alkyl, aryl, alkoxy; X = polymer residue]. Chloromethylated styrene-divinylbenzene copolymer was esterified with Na diethoxyacetate, chlorinated by AcCl, and treated with p-anisidine to give I (R₁ = CH₂, R₂ = C₆H₄OMe-p) (II). Mannich reaction of II with Me₂C:C(OMe)OSiMe₃ in CH₂Cl₂-MeCN in the presence of Sc(OTf)₃ at room temperature for 20 h gave 76% di-Me 3,3-dimethyl-2-(4'-methoxyphenyl)aminosuccinate.

IT 290810-47-8P 290810-48-9P 290810-51-4P
290810-52-5P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP

10/770,123

11b-methyl-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 11 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:597963 CAPLUS

DOCUMENT NUMBER: 135:180709

TITLE: Substituted 1,2,3,4-tetrahydroquinoline-2-carboxylic acid derivatives

INVENTOR(S): Gerlach, Matthias; Przewosny, Michael; Englberger, Werner; Reissmueller, Elke; Bloms-Funke, Petra; Maul, Corinna; Jagusch, Utz-Peter

PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany

SOURCE: PCT Int. Appl., 152 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

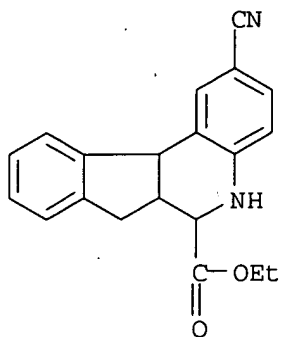
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001058875	A2	20010816	WO 2001-EP588	20010119
WO 2001058875	A3	20020124		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 10005302	A1	20020117	DE 2000-10005302	20000207
CA 2416343	AA	20010816	CA 2001-2416343	20010119
EP 1254118	A2	20021106	EP 2001-901176	20010119
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2003522758	T2	20030729	JP 2001-558426	20010119
NZ 521088	A	20040528	NZ 2001-521088	20010119
US 2003087926	A1	20030508	US 2002-213436	20020807
US 6699877	B2	20040302		

PRIORITY APPLN. INFO.: DE 2000-10005302 A 20000207
WO 2001-EP588 W 20010119

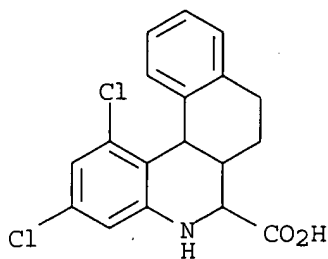
OTHER SOURCE(S): MARPAT 135:180709

AB The invention concerns substituted 1,2,3,4-tetrahydroquinoline-2-carboxylic acid derivs., a method for the production of these derivs., their use in the production of medicaments and medicaments containing these compds. for

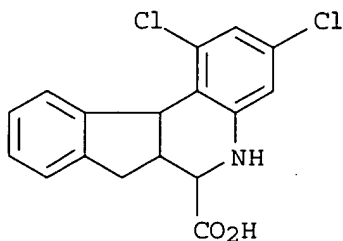
10/770,123



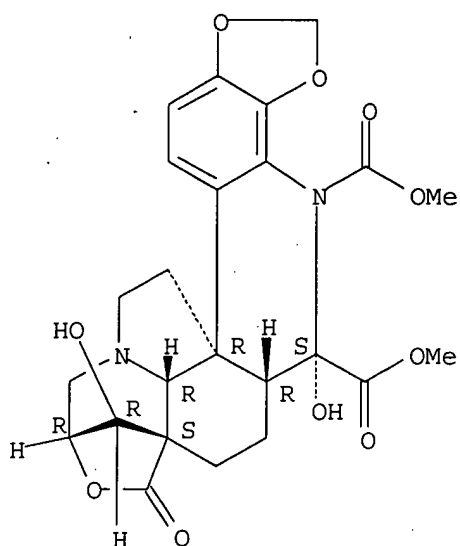
RN 354810-18-7 CAPLUS
CN Benzo[k]phenanthridine-6-carboxylic acid, 1,3-dichloro-5,6,6a,7,8,12b-hexahydro- (9CI) (CA INDEX NAME)



RN 354810-19-8 CAPLUS
CN 5H-Indeno[2,1-c]quinoline-6-carboxylic acid, 1,3-dichloro-6,6a,7,11b-tetrahydro- (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:557719 CAPLUS
DOCUMENT NUMBER: 135:315882
TITLE: Mersinines A and B and mersiloscine, novel quinolinic alkaloids from Kopsia
AUTHOR(S): Kam, T.-S.; Subramaniam, G.; Lim, T.-M.
CORPORATE SOURCE: Department of Chemistry, University of Malaya, Kuala Lumpur, 50603, Malay.
SOURCE: Tetrahedron Letters (2001), 42(34), 5977-5980
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:537221 CAPLUS

DOCUMENT NUMBER: 135:318668

TITLE: The aza-Diels-Alder reaction protocol - a useful approach to chiral sterically constrained α -amino acid derivatives

AUTHOR(S): Bertilsson, S. K.; Ekegren, J. K.; Modin, S. A.; Andersson, P. G.

CORPORATE SOURCE: Department of Organic Chemistry, Institute of Chemistry, Uppsala University, Uppsala, SE-751 21, Swed.

SOURCE: Tetrahedron (2001), 57(30), 6399-6406

CODEN: TETRAB; ISSN: 0040-4020

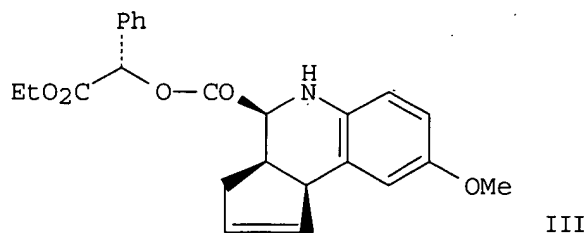
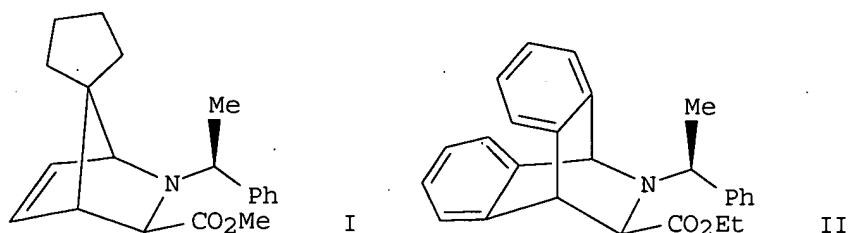
PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:318668

GI



AB Different types of polycyclic α -amino acid derivs. are prepared from chiral imines by using well-established aza-Diels-Alder reaction conditions. Simply by varying the diene moiety, different products such as spirocyclic compds., anthracene, and tetrahydroquinolines (e.g. I, II, III) are formed.

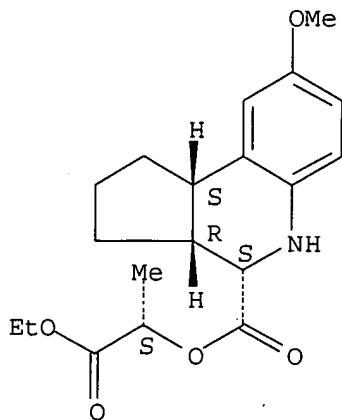
IT **365573-02-0P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of sterically constrained amino acid derivs. by aza-Diels-Alder reaction from chiral imines)

RN 365573-02-0 CAPLUS

CN 1H-Cyclopenta[c]quinoline-4-carboxylic acid, 2,3,3a,4,5,9b-hexahydro-8-methoxy-, (1S)-2-ethoxy-1-methyl-2-oxoethyl ester, (3aR,4S,9bS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

60

THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

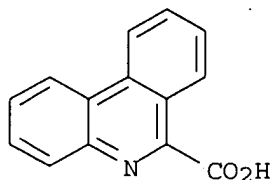
L4 ANSWER 14 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:118484 CAPLUS

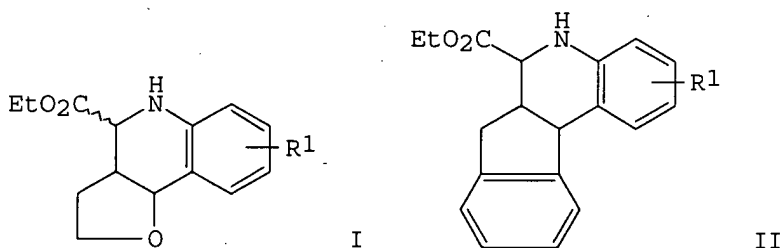
DOCUMENT NUMBER: 134:310722

10/770,123

μIU/mL for Abbot-hTSH-EIA (enzymic immunoassay) kit.
IT 19711-92-3, 6-Phenanthridinecarboxylic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, with alanine derivative)
RN 19711-92-3 CAPLUS
CN 6-Phenanthridinecarboxylic acid (6CI, 8CI, 9CI) (CA INDEX NAME)



L4 ANSWER 28 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:457569 CAPLUS
DOCUMENT NUMBER: 111:57569
TITLE: Synthesis and cycloaddition reactions of ethyl glyoxylate imines. Synthesis of substituted furo[3,2-c]quinolines and 7H-indeno[2,1-c]quinolines
AUTHOR(S): Borrione, Elisabetta; Prato, Maurizio; Scorrano, Gianfranco; Stivanello, Mariano; Lucchini, Vittorio
CORPORATE SOURCE: Dip. Chim. Org., CNR, Padua, 35131, Italy
SOURCE: Journal of Heterocyclic Chemistry (1988), 25(6), 1831-5
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:57569
GI



AB The reaction of RN:CHCO₂Et (R = Ph, tolyl, anisyl, ClC₆H₄, O₂NC₆H₄) with 2,3-dihydrofuran and BF₃ etherate catalyst gave furoquinolines I (R₁ = H, Me, OMe, Cl, NO₂). Similarly, indene gave indenoquinolines II (R₁ same as above).

IT 121641-66-5P 121641-67-6P 121641-68-7P
121641-69-8P 121641-70-1P 121641-71-2P
121641-72-3P 121641-73-4P 121641-74-5P
121641-75-6P 121641-76-7P 121641-77-8P
121641-78-9P 121641-79-0P 121641-80-3P
121641-81-4P 121641-82-5P 121641-83-6P
121641-84-7P 121641-85-8P 121641-86-9P
121641-87-0P 121702-35-0P 121702-36-1P

10/770,123

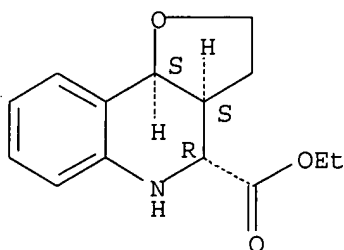
121702-37-2P 121702-38-3P 121702-39-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 121641-66-5 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3,3a,4,5,9b-hexahydro-, ethyl ester, (3a α ,4 α ,9b α)- (9CI) (CA INDEX NAME)

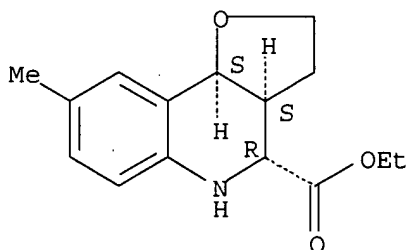
Relative stereochemistry.



RN 121641-67-6 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3,3a,4,5,9b-hexahydro-8-methyl-, ethyl ester, (3a α ,4 α ,9b α)- (9CI) (CA INDEX NAME)

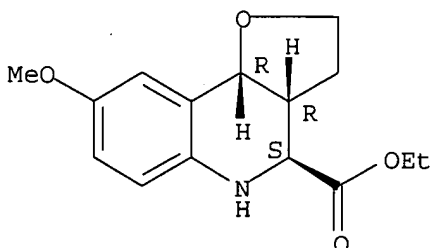
Relative stereochemistry.



RN 121641-68-7 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3,3a,4,5,9b-hexahydro-8-methoxy-, ethyl ester, (3a α ,4 α ,9b α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

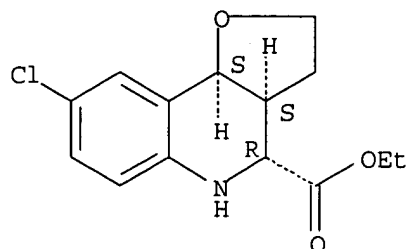


RN 121641-69-8 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 8-chloro-2,3,3a,4,5,9b-hexahydro-, ethyl ester, (3a α ,4 α ,9b α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

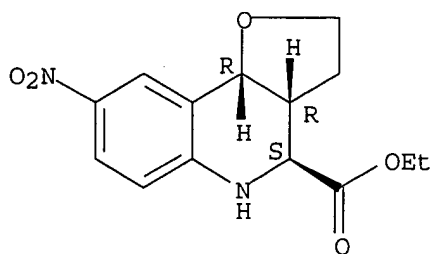
10/770,123



RN 121641-70-1 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3,3a,4,5,9b-hexahydro-8-nitro-, ethyl ester, (3a α ,4 α ,9b α)- (9CI) (CA INDEX NAME)

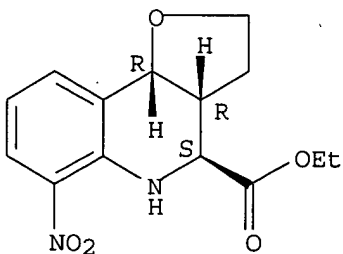
Relative stereochemistry.



RN 121641-71-2 CAPLUS

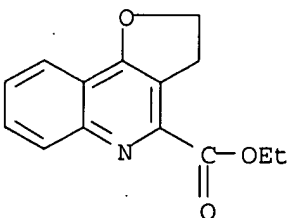
CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3,3a,4,5,9b-hexahydro-6-nitro-, ethyl ester, (3a α ,4 α ,9b α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 121641-72-3 CAPLUS

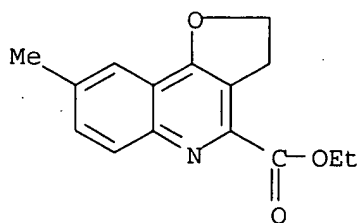
CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3-dihydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 121641-73-4 CAPLUS

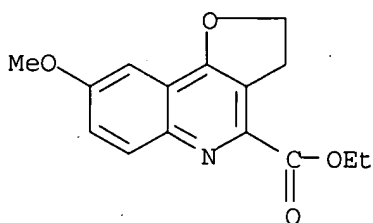
10/770,123

CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3-dihydro-8-methyl-, ethyl ester
(9CI) (CA INDEX NAME)



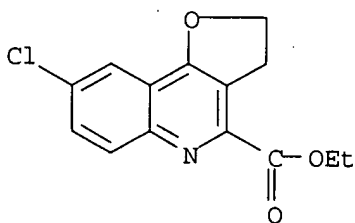
RN 121641-74-5 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3-dihydro-8-methoxy-, ethyl ester (9CI) (CA INDEX NAME)



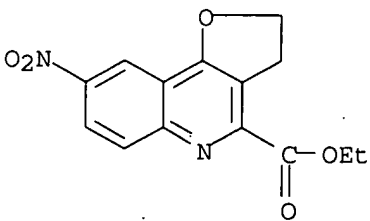
RN 121641-75-6 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 8-chloro-2,3-dihydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 121641-76-7 CAPLUS

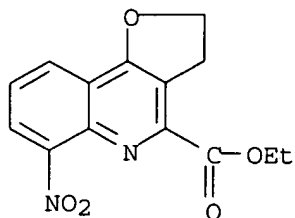
CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3-dihydro-8-nitro-, ethyl ester (9CI) (CA INDEX NAME)



RN 121641-77-8 CAPLUS

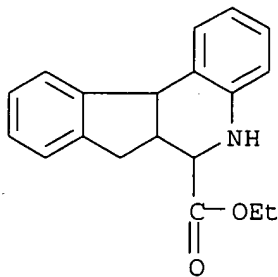
CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3-dihydro-6-nitro-, ethyl ester (9CI) (CA INDEX NAME)

10/770,123



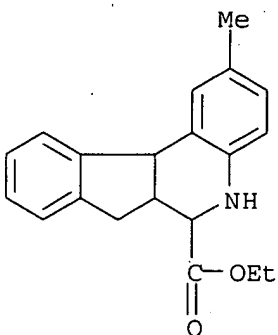
RN 121641-78-9 CAPLUS

CN 5H-Indeno[2,1-c]quinoline-6-carboxylic acid, 6,6a,7,11b-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 121641-79-0 CAPLUS

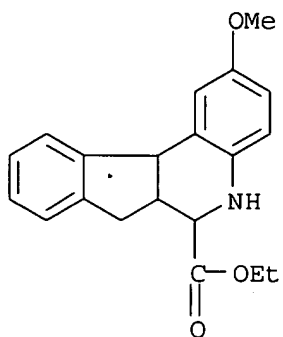
CN 5H-Indeno[2,1-c]quinoline-6-carboxylic acid, 6,6a,7,11b-tetrahydro-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 121641-80-3 CAPLUS

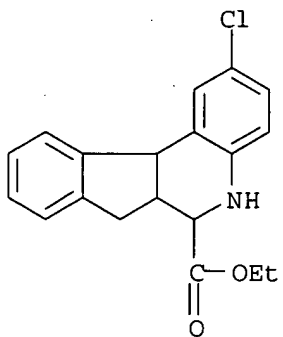
CN 5H-Indeno[2,1-c]quinoline-6-carboxylic acid, 6,6a,7,11b-tetrahydro-2-methoxy-, ethyl ester (9CI) (CA INDEX NAME)

10/770,123



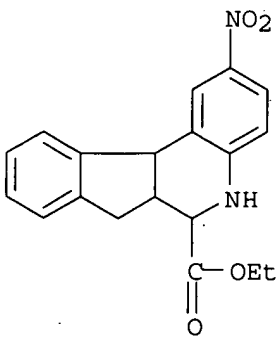
RN 121641-81-4 CAPLUS

CN 5H-Indeno[2,1-c]quinoline-6-carboxylic acid, 2-chloro-6,6a,7,11b-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 121641-82-5 CAPLUS

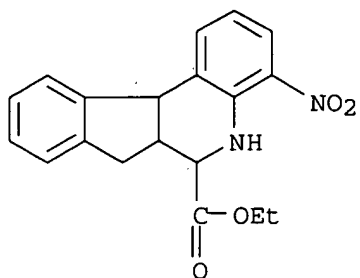
CN 5H-Indeno[2,1-c]quinoline-6-carboxylic acid, 6,6a,7,11b-tetrahydro-2-nitro-, ethyl ester (9CI) (CA INDEX NAME)



RN 121641-83-6 CAPLUS

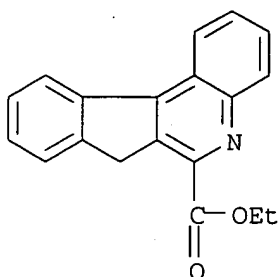
CN 5H-Indeno[2,1-c]quinoline-6-carboxylic acid, 6,6a,7,11b-tetrahydro-4-nitro-, ethyl ester (9CI) (CA INDEX NAME)

10/770,123



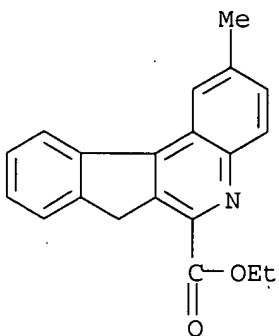
RN 121641-84-7 CAPLUS

CN 7H-Indeno[2,1-c]quinoline-6-carboxylic acid, ethyl ester (9CI) (CA INDEX NAME)



RN 121641-85-8 CAPLUS

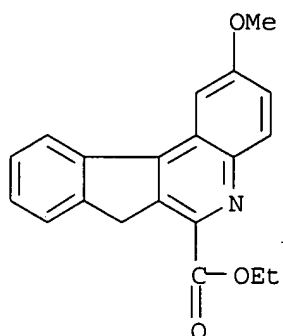
CN 7H-Indeno[2,1-c]quinoline-6-carboxylic acid, 2-methyl-, ethyl ester (9CI)
(CA INDEX NAME)



RN 121641-86-9 CAPLUS

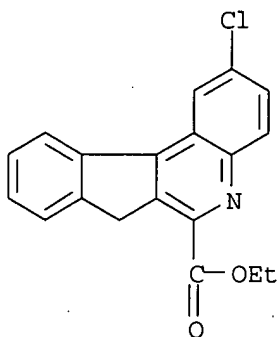
CN 7H-Indeno[2,1-c]quinoline-6-carboxylic acid, 2-methoxy-, ethyl ester (9CI)
(CA INDEX NAME)

10/770,123



RN 121641-87-0 CAPLUS

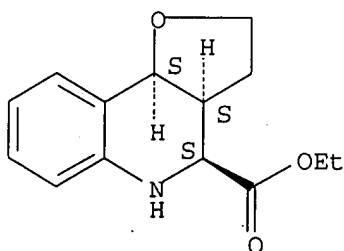
CN 7H-Indeno[2,1-c]quinoline-6-carboxylic acid, 2-chloro-, ethyl ester (9CI)
(CA INDEX NAME)



RN 121702-35-0 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3,3a,4,5,9b-hexahydro-, ethyl ester, (3a α ,4 β ,9b α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

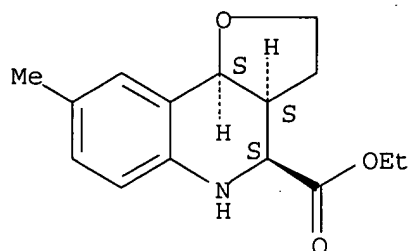


RN 121702-36-1 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3,3a,4,5,9b-hexahydro-8-methyl-, ethyl ester, (3a α ,4 β ,9b α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

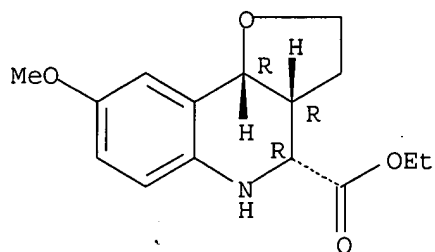
10/770,123



RN 121702-37-2 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3,3a,4,5,9b-hexahydro-8-methoxy-, ethyl ester, (3a α ,4 β ,9b α)- (9CI) (CA INDEX NAME)

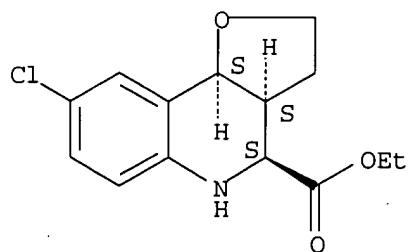
Relative stereochemistry.



RN 121702-38-3 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 8-chloro-2,3,3a,4,5,9b-hexahydro-, ethyl ester, (3a α ,4 β ,9b α)- (9CI) (CA INDEX NAME)

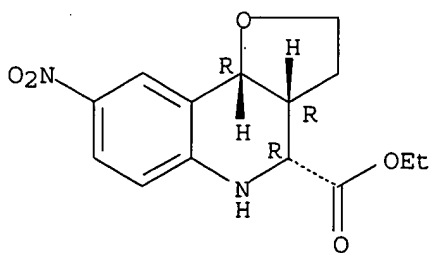
Relative stereochemistry.

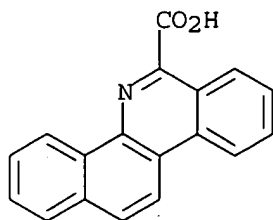


RN 121702-39-4 CAPLUS

CN Furo[3,2-c]quinoline-4-carboxylic acid, 2,3,3a,4,5,9b-hexahydro-8-nitro-, ethyl ester, (3a α ,4 β ,9b α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.





L4 ANSWER 47 OF 47 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1946:5233 CAPLUS

DOCUMENT NUMBER: 40:5233

ORIGINAL REFERENCE NO.: 40:879g-i,880a-d

TITLE: Phenanthridine series. V. Phenanthridine-6-aldehyde and related compounds

AUTHOR(S): Ritchie, E.

CORPORATE SOURCE: Univ. of Sydney, Australia

SOURCE: Journal and Proceedings of the Royal Society of New South Wales (1945), 78, 164-8
CODEN: JPRSA5; ISSN: 0035-9173

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB A mixture of 12 g. 6-methylphenanthridine, 7.6 g. finely powdered SeO_2 , and 250 cc. AcOEt was refluxed for 10 hrs. and filtered. The filtrate was evaporated and the residue extracted with 250 cc. N HCl . Addition of Na_2CO_3 first precipitated

impurities which were filtered, and further addition gave a precipitate which was

recrystd. from EtOH to give 9 g. 6-phenanthridinecarboxaldehyde (I), pale yellow needles, m. 139° ; oxime, pale yellow plates from EtOH , m. 227° (decomposition); semicarbazone, colorless plates from EtOH , m. 238° (decomposition); phenylhydrazone, golden needles from EtOH , m. 166° ; Schiff base with p-toluidine, yellow needles from EtOH , m. 87° . The dilute HCl solution of I is colored yellow with faint blue fluorescence. All attempts to form quaternary NH_4 compds. of I failed. I was recovered unchanged after heating 2 hrs. with excess MeI at 100° , and was gradually resinified when refluxed with Me_2SO_4 in PhMe . R. attributes this unreactivity to the lowered availability of the lone electron pair of the N for quaternary NH_4 salt formation, by conjugation with the strongly electrophilic O of the carbonyl group. Oxidation of I in dilute H_2SO_4 with the theoretical amount of $\text{K}_2\text{Cr}_2\text{O}_7$ yielded unchanged I and phenanthridone (II), but an excess of $\text{K}_2\text{Cr}_2\text{O}_7$ gave 100% II. II was also obtained by oxidizing I with KMnO_4 in acid solution at 60° . Oxidation of I with KMnO_4 in alkaline solution at 40° gave a little II and chiefly 6-phenanthridinecarboxylic acid which evolved CO_2 at 155° , leaving phenanthridine. I would not undergo the benzoin condensation nor could it be reduced by HCHO in alkaline solution Heating I

with

$\text{CH}_2(\text{CO}_2\text{H})_2$ in pyridine in the presence of piperidine yielded CO_2 and a tar. A solution of 2 g. I and 1.5 g. $\text{CH}_2(\text{CO}_2\text{Et})_2$ and a few drops piperidine in 40 cc. absolute EtOH was allowed to stand 3 weeks, and the solvent was evaporated Recrystn. of the solidified residue from MeOH yielded 0.8 g. Et α -carbethoxy-6-phenanthridineacrylate (III), pale yellow needles, m. 91° . Condensation of I with Me_2CO gave only amorphous products, but condensation of I with PhCOMe in the presence of NaOH yielded 6-(diphenacylmethyl)phenanthridine, yellow needles from EtOH , m. 157° . Similarly, condensation of I in the presence of piperidine with MeNO_2 yielded 2-hydroxy-2-(6-phenanthridyl)-1-nitroethane, colorless needles from EtOH , decompose 132° , and with $\text{MeC}_6\text{H}_2(\text{NO}_2)_3$ yielded

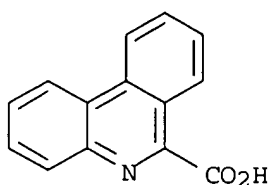
10/770,123

β -(6-phenanthridyl)-2,4,6-trinitrostyrene, colorless needles, decompose 180°. Attempts to oxidize 6-ethylphenanthridine with SeO₂ failed but 6-benzylphenanthridine readily yielded 6-benzoylphenanthridine, colorless crystals from EtOH, m. 152°; oxime, colorless needles from EtOH, m. 217° (decomposition); semicarbazone, colorless plates from EtOH, m. 175°; phenylhydrazone, yellow leaflets from EtOH-C₆H₆, m. 92°. III along with 6-phenanthridinebutyric acid and 6-phenanthridinevaleric acid (cf. Part III) possessed no plant hormone activity.

IT 19711-92-3, 6-Phenanthridinecarboxylic acid
(preparation of)

RN 19711-92-3 CAPLUS

CN 6-Phenanthridinecarboxylic acid (6CI, 8CI, 9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 10:35:36 ON 21 JUL 2005)

FILE 'REGISTRY' ENTERED AT 10:35:47 ON 21 JUL 2005

L1 STRUCTURE UPLOADED

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L3 169 S L1 FULL

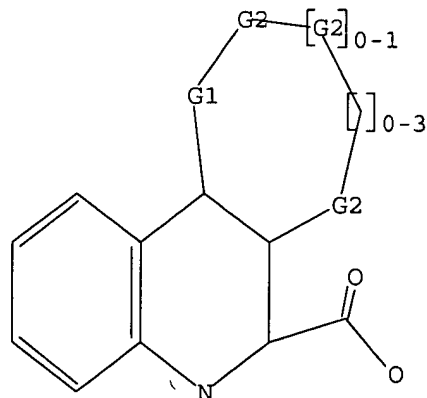
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L4 47 S L3

=>.d l1

L1 HAS NO ANSWERS

L1 STR



G1 C,O,S

G2 C,O

10/770,123

Structure attributes must be viewed using STN Express query preparation.

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